



SIRIO

ENERGY COUNTER

SIRIO is a 4 DIN module multi-functional low cost instrument ideal for the measurement, and display of the main electrical parameters.

SIRIO displays 7 true RMS measures in a 8 digits LCD display and can be installed in single and three-phase unbalanced delta/star systems. Connection is via sturdy 4 mm² terminals for voltage and current measurement. PAG, SEL, SET keys on the front panel to scroll the different measurement and SETUP pages.

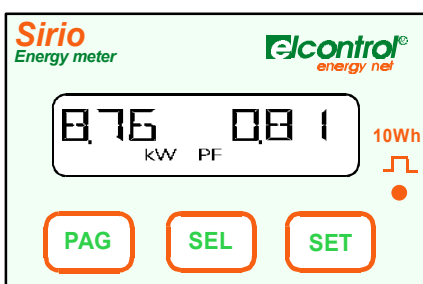
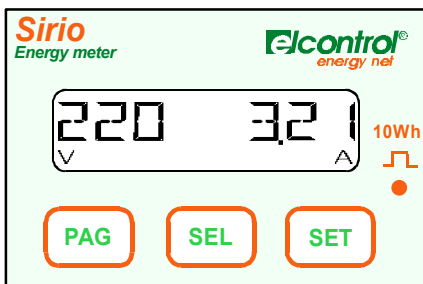
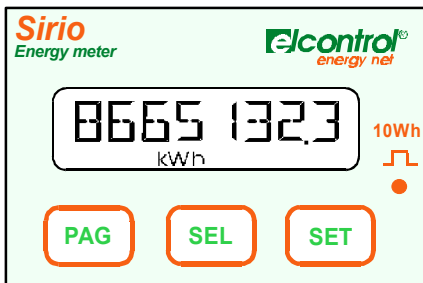
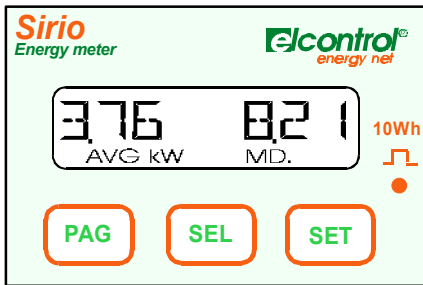
The setup pages and the reset can be protected by a password. Models with multi-protocols RS485 output and 2 relay outputs for alarms or pulses.

SIRIO can advantageously replace by itself several panel mounted traditional instruments saving space, simplifying cabling and offering improved performance in terms of reliability and accuracy at a very competitive price.

All the parameters can be configured from the keyboard with the instrument already installed.

Superior performance on distorted waveforms.

Thanks to the alarm relays and serial communication SIRIO is ideal to control the users in buildings, campings, stores and hotels.



MODELS

SIRIO : standard model without outputs

SIRIO 485 ALM : RS485 multi-protocol serial output with MODBUS RTU, ASCII and IEEE.

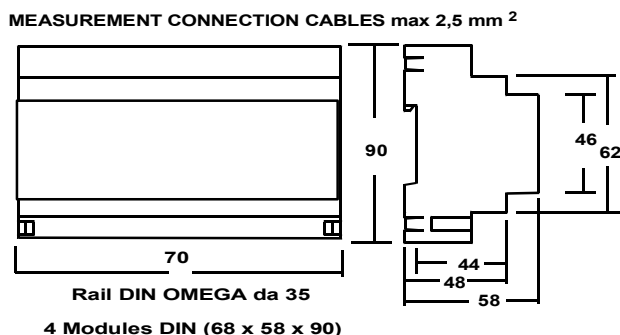
Two relay outputs, one mechanical 1 Amp 250 Volt and one electronic. The outputs can be used for alarms or pulse signals. The relay can also be used to generate, in case of alarm, one single pulse to trip an external contactor.

TECHNICAL CHARACTERISTICS

- **Maximum size (mm):** instrument: 70 x 58 x 90. (4 DIN modules)
- **Power supply:** from network 230 Vac or 115 Vac \pm 10% , 35 \div 400 Hz (2 VA)
- **Display:** LCD 128 segments
- **Voltmeter inputs:** VL1, VL2, VL3, N up to 264 Vac ~ phase-neutral, 450 Vac phase-phase, 35 \div 400 Hz.
- **Voltmeter inputs Impedence:** 2 M ohm
- **Voltage input overload:** max 600 Vac phase-neutral
- **Number of scales:** 1 voltage scale, 2 current scales.
- **Amperometric inputs:** AL1, AL2, AL3. Consumption 1 VA. Three 5A external CT required
- **Amperometric Input overload:** max 7 Amp permnent, 15 Amp per 1 second
- **Measurements:** True R.M.S with accuracy up to the 25th harmonics.
- **Accuracy:** 1% for V and I , 2% for Power Class 2 IEC 1036
- **Suitable for connection:** Single-phase, Three-phase Star, Three-phase Delta, Bi-phase + Neutral
- **Weight of the instrument:** 0,3 Kg
- **Protection level:** instrument IP20, front panel IP40
- **Ambient Temperature Range:** -10°C \div + 60°C
- **Relative Humidity Range (R.H.):** from 20% to 80%.
- **Condensation:** non condensing
- **Output relays :** 1 electronic relay 120 mA 100VAC + 1 mechanical relay 1 Amp 250V

MEASURES AND DIMENSIONS

- Voltage
- Current
- Active Power
- Power factor
- Average Active Power
- Maximum demand Active Power
- Active Energy Counter



STANDARDS and REGULATION - CE conformity declaration

The SIRIO family of products conforms to Directive 89/336/EEC (EMC), Directive 73/23/EEC - 93/68/EEC (LVD)
In compliance with standards IEC 1010-1-400V Cat. III and protection level 2 according to IEC 664-664A (Safety),
EN500081-1, EN50082-2 ed EN55022 (EMC)

3 YEARS WARRANTY

For this instrument we provide a warranty period of 3 YEARS.

The high quality level of all our new products makes possible to guarantee the working conditions up to 3 years during which the instruments are immediately replaced with a new unit whenever a factory defect comes out